NAME OF WORK:- Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No-04

First and Final Bill

Quality Control Reports

QC ABSTRACT

E OF WORK: Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads
rd No. 04

)	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1

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	PCC(M15)	Compressive Strength(7days and 28days)	1 set		2	2
	PCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	97 83	10	10
	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-08-09-09 **Date: 10-02-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
Agency	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka
Customer's Reference	:	BBMP/EE/YNK D/EPMT-5/W.O/83/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-02-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 08-03-2022

Lab ID	:	CP-2022-08-09-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
Agency	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/83/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	08-02-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-08-09-09** **Date: 10-02-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
Agency	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/83/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-02-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-02-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-08-09-09** **Date: 10-02-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-08-09-09** **Date: 09-02-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-08-09-09 Date: 09-02-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Lab ID : **CP-2022-08-09-09** **Date: 18-04-2022**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than "moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-08-09-09 **Date: 29/06/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
Agency	:	Sri B B Umesh, M/s. SMLP Asphalts, No.1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/83/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-2022
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5
Date of test	:	29/06/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/06/2022	29/06/2022	150.78 X 150.22 X 151.51	22651	8.375	541.2	23.9	23.2
2	PCC	M20	01/06/2022	29/06/2022	149.01 X 151.12 X 150.94	22519	8.988	509.2	22.6	
3	PCC	M20	01/06/2022	29/06/2022	151.57 X 151.82 X 149.02	23012	8.326	532.3	23.1	

* The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-08-09-09 Date: 01/07/2022
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
Agency	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/83/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-06-2022
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2022	01/07/2022	149.22 X 150.11 X 150.31	22400	8.161	518.6	23.2	23.0
2	PCC	M20	03/06/2022	01/07/2022	150.25 X 151.35 X 151.97	22741	8.441	503.7	22.2	
3	PCC	M20	03/06/2022	01/07/2022	149.72 X 151.56 X 150.44	22691	8.954	536.8	23.7	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-08-09-09 Date: 08/07/2022
tomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
lress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
ject Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
ncy	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
tomer's Reference	:	BBMP/EE/YNK D/EPMT-5/W.O/83/2021-22
rce of Sample	:	Sample supplied by Agency
nple Condition	:	Satisfactory
e of Receipt	:	02-07-22
stomer ID	:	Flooring Concrete
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M15 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
te of test	:	07/07/2022

L. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M15	30/06/2022	07/07/2022	149.46 X 149.32 X 149.67	22317	8.191	287.2	12.9	12.4
2	Flooring Concrete	M15	30/06/2022	07/07/2022	149.07 X 149.36 X 151.01	22265	8.423	271.0	12.2	
3	Flooring Concrete	M15	30/06/2022	07/07/2022	151.33 X 150.80 X 150.20	22821	8.844	275.5	12.1	

The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID	:	CP-2022-08-09-09 **Date: 29/07/2022**
stomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ddress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
oject Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
gency	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/83/2021-22
ource of Sample	:	Sample supplied by Agency
ample Condition	:	Satisfactory
ate of Receipt	:	02-07-22
ustomer ID	:	Flooring Concrete
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M15 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
ate of test	:	28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M15	30/06/2022	28/07/2022	151.67 X 149.06 X 150.40	22607	8.947	406.5	18.0	17.6
2	Flooring Concrete	M15	30/06/2022	28/07/2022	149.71 X 150.81 X 151.13	22577	8.846	400.5	17.7	
3	Flooring Concrete	M15	30/06/2022	28/07/2022	151.15 X 149.40 X 150.07	22582	8.194	385.1	17.1	

* The results obtained are satisfactory as per standard requirements

Note:
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Certificate No.: TC-5548

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	CP-2022-08-09-09 Date: 17-05-2022
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
Agency	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, IIIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/83/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-2022
Sample Type/ Size	:	Precast concrete blocks for paving (Heavy Duty Cobble Stones)
Reference to BIS codes	:	IS 15658:2021
Date of test	:	12-05-2022

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength (N/mm^2)	Average (N/mm^2)
	L	B	T		
1	197.22	159.88	75.99	35.6	37.0
2	198.48	159.64	75.25	36.5	
3	199.54	159.54	75.48	38.5	
4	197.68	159.22	75.55	36.4	
5	198.11	159.87	75.32	37.2	
6	198.18	160.02	75.11	35.9	
7	198.45	158.99	75.98	38.7	
8	197.22	159.22	75.12	37.2	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 04-03-2022

Lab ID	:	CP-2022-08-09-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Extension and Additional Works to Parking Lot at 16th A Main and 16th B Cross Roads in Ward No. 04
Agency	:	Sri B B Umesh, M/s. SMLP Asphalts, No:1265, Ground floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/83/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-2022
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	28-02-2022

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	153	203	12393	22.598	1823.5	1894.0	Not less than 1800Kg/m^3
2	401	152	200	12190	23.283	1910.0		
3	398	153	200	12179	23.730	1948.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Lab ID : CP-2022-08-09-09 Date: 04-03-2022

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	152	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	151	200	
3	404	150	202	
4	403	150	202	
5	402	150	203	
6	401	151	201	
7	402	151	202	
8	404	149	200	
9	402	151	202	
10	400	151	202	
11	401	153	200	
12	399	150	199	
13	401	153	199	
14	400	150	199	
15	400	152	199	
16	403	150	202	
17	402	151	199	
18	403	150	201	
19	403	152	200	
20	400	151	199	
Average of 20	402	151	201	

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Lab ID : CP-2022-08-09-09 Date: 04-03-2022

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	152	60878	237.4	3.9	4.2
2	403	151	60684	249.7	4.1	
3	404	150	60398	236.4	3.9	
4	403	150	60313	250.8	4.2	
5	402	150	60157	249.1	4.1	
6	401	151	60635	270.2	4.5	
7	402	151	60855	265.7	4.4	
8	404	149	60301	263.2	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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